Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	4	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	5	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	6	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	7	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS	8	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS	9	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS	10	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	11	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS	12	SEP 27	STANDARDS will no longer be available on STN
NEWS	13	SEP 27	SWETSCAN will no longer be available on STN

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:05:58 ON 21 OCT 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:06:15 ON 21 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.63

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:06:23 ON 21 OCT 2004

Connecting via Winsock to STN

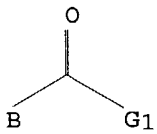
Welcome to STN International! Enter x:x

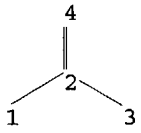
LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:10:04 ON 21 OCT 2004
FILE 'REGISTRY' ENTERED AT 06:10:04 ON 21 OCT 2004

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.63

=>
Uploading C:\Examination Auxillary files\10089036\10089036 clm 1.str





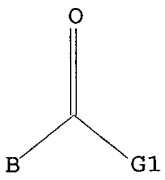
chain nodes :
1 2 3 4
chain bonds :
1-2 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,A

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:11:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2911 TO ITERATE

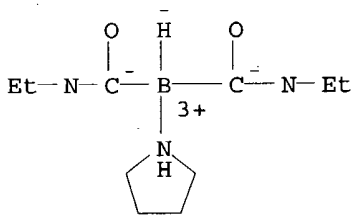
 34.4% PROCESSED 1000 ITERATIONS 13 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH **COMPLETE**
PROJECTED ITERATIONS: 54985 TO 61455
PROJECTED ANSWERS: 387 TO 1125

L2 13 SEA SSS SAM L1

=> d scan

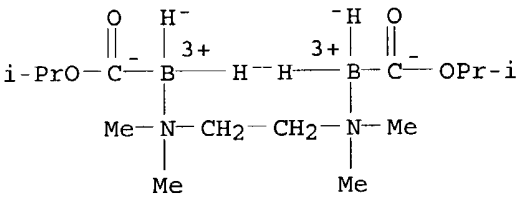
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)
MF C10 H22 B N3 O2
CI CCS



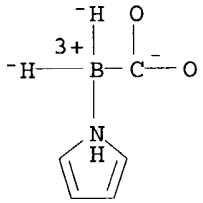
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, tetrahydrobis[(1-methylethoxy)carbonyl][μ-[N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N']]di- (9CI)
MF C14 H34 B2 N2 O4
CI CCS



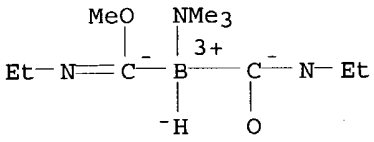
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (carboxylato)dihydro(1H-pyrrole)-, (T-4)- (9CI)
MF C5 H7 B N O2
CI CCS, COM



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

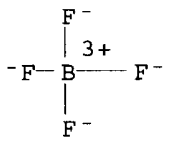
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, (N,N-dimethylmethanamine)[(ethylamino)carbonyl][(ethylimino)methoxymethyl]hydro-, (T-4)-, bis[tetrafluoroborate(1-)] (9CI)
MF C10 H24 B N3 O2 . 2 B F4 . 2 H

CM 1

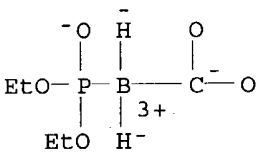


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

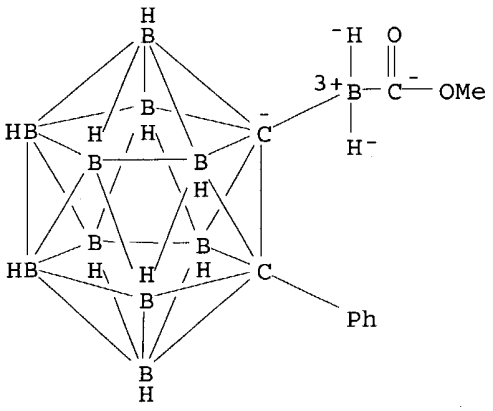


L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)(diethyl phosphito-P)dihydro-, sodium hydrogen, (T-4)- (9CI)
MF C5 H12 B O5 P . H . Na
CI CCS



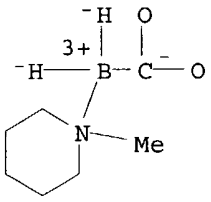
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), dihydro(methoxycarbonyl)(2-phenyl-1,2-dicarbadodecaboran(12)-1-yl)-, lithium, (T-4)- (9CI)
MF C10 H20 B11 O2 . Li
CI CCS



● Li+

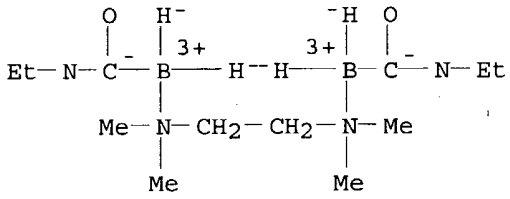
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (carboxylato)dihydro(1-methylpiperidine)-, hydrogen, (T-4)-(9CI)
MF C7 H15 B N O2 . H
CI CCS



● H+

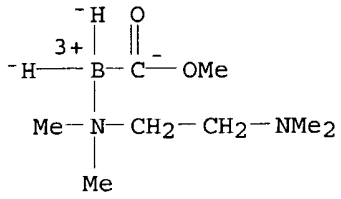
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, bis[(ethylamino)carbonyl]tetrahydro[μ-(N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N')]di- (9CI)
MF C12 H32 B2 N4 O2
CI CCS



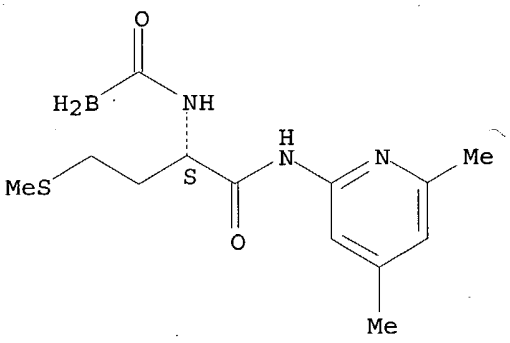
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, dihydro(methoxycarbonyl)(N,N,N',N'-tetramethyl-1,2-ethanediamine-κN)-, (T-4)- (9CI)
MF C8 H21 B N2 O2
CI CCS

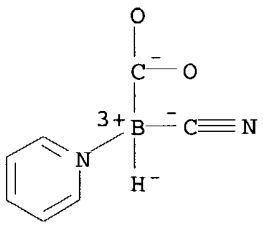


L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boranecarboxamide, N-[1-[[(4,6-dimethyl-2-pyridinyl)amino]carbonyl]-3-(methylthio)propyl]-, (S)- (9CI)
MF C13 H20 B N3 O2 S
CI COM

Absolute stereochemistry.



L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (carboxylato)(cyano-κC)hydro(methylpyridine)- (9CI)
MF C8 H8 B N2 O2
CI CCS, IDS, COM

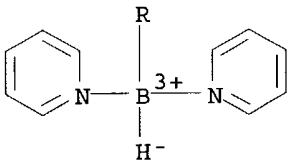


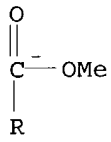
D1—Me

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

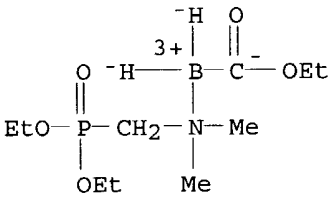
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron(1+), hydro(methoxycarbonyl)bis(pyridine)-, bromide, (T-4)- (9CI)
MF C12 H14 B N2 O2 . Br
CI CCS





● Br^-

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, [diethyl [(dimethylamino)methyl]phosphonate-N](ethoxycarbonyl)dihydro-, (T-4)- (9CI)
MF C10 H25 B N O5 P
CI CCS

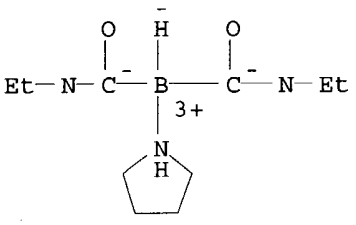


ALL ANSWERS HAVE BEEN SCANNED

=> e Boron, bis((ethylamino)carbonyl)hydro(pyrrolidine)-, (T-4)-/c
EXPAND INCOMPLETE (SYSTEM ERROR)
COMMAND INTERRUPTED
The file that the system uses for index display in the EXPAND command is not available now. If this message appears repeatedly, please notify the Help Desk. Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> e Boron, bis((ethylamino)carbonyl)hydro(pyrrolidine)-, (T-4)-/cn

```
E1              1      BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRIDINE)-, (T-4)-, BI
                       S(TETRAFLUOROBORATE(1-))/CN
E2              1      BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRIDINE)-, (T-4)-, MO
                       NO(HEXAFLUOROPHOSPHATE(1-))/CN
E3              1 --> BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRROLIDINE)-, (T-4)-/
                       CN
E4              1      BORON, BIS((ETHYLAMINO)CARBONYL)TETRAHYDRO(M-(N,N,N',N'-T
                       ETRAMETHYL-1,2-ETHANEDIAMINE-N:N'))DI-/CN
E5              1      BORON, BIS((ETHYLAMINO)CARBONYL)TETRAHYDRO(M-(TETRAETHYL
                       DIPHOSPHITE-KP:KP'))DI-/CN
E6              1      BORON, BIS((ETHYLAMINO)IMINOMETHYL)TETRAHYDRO(M-(N,N,N',N
                       '-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N'))DI-/CN
E7              1      BORON, BIS((ETHYLAMINO)THIOXOMETHYL)TETRAHYDRO(M-(N,N,N',
                       N'-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N'))DI-/CN
E8              1      BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(4-METHYLPYRIDINE)
                       -, (T-4)-/CN
E9              1      BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(4-METHYLPYRIDINE)
                       -, (T-4)-, BIS(TETRAFLUOROBORATE(1-))/CN
E10             1      BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(PYRIDINE)-, (T-4)
                       -/CN
E11             1      BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(PYRIDINE)-, (T-4)
                       -, BIS(TETRAFLUOROBORATE(1-))/CN
E12             1      BORON, BIS(A,A-DIPHENYL-2-PYRROLIDINEMETHANOLATO
                       -N1,OA)DIMETHYL-M-OXODI-, (1S-(1A(1R*,2R*),2.
                       ALPHA.))-/CN

=> e3
L3              1 "BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRROLIDINE)-, (T-4)-"/CN

=> dl3
L4              1 DL3

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   340154-04-3  REGISTRY
CN   Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)
     (CA INDEX NAME)
MF   C10 H22 B N3 O2
CI   CCS
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  PREP (Preparation)
```



```
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      14.41      14.62
```

FILE 'CAPLUS' ENTERED AT 06:15:35 ON 21 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l3
L5 1 L3

=> d l5 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses of the First Amine-dicarboxyboranes and Their Bis(methylester) and Bis(N-ethylamide) Derivatives
AN 2001:174667 CAPLUS
DN 134:366926
TI Syntheses of the First Amine-dicarboxyboranes and Their Bis(methylester) and Bis(N-ethylamide) Derivatives
AU Gyoeri, Bela; Berente, Zoltan
CS Department of Inorganic and Analytical Chemistry, University of Debrecen, Debrecen, H-4010, Hung.
SO Inorganic Chemistry (2001), 40(8), 1770-1778
CODEN: INOCAJ; ISSN: 0020-1669
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:366926
AB Amine-bis(N-ethylcarbamoyl)boranes [A·BH(CONHEt)2, 3; A = trimethylamine (Me3N, a), quinuclidine (Q, b), pyridine (py, f), 4-picoline (pic, g)] were prepared after deprotonation of [amine-bis(C-hydroxy-N-ethylimidate)hydroboron(2+)] cations (2), which were formed by the hydrolysis of [amine-bis(ethylnitrilium)hydroboron(2+)] tetrafluoroborates (1). Numerous representatives of 3 [A = diethylamine (Et2NH, c), piperidine (pip, d), pyrrolidine (pyrr, e), 4-aminopyridine (4-NH2-py, h), 4-(dimethylamino)pyridine (DMAP, i), imidazole (Him, j), 1-methylimidazole (Mim, k)] were prepared by base exchange reactions from 3a. 3A-e are extremely stable in aqueous media, either acidic or alkaline, probably because of the considerable steric hindrance of possible reaction centers. However, they were transformed into amine-dicarboxyboranes [A·BH(COOH)2, 4a-e] in acidic medium under vigorous conditions (100-130°). This transformation was accompanied by significant decomposition, probably owing to the protonation on the N atom, resulting in the rupture of the B-N bond. As an exception, 4b, where N atom in a rigid bicycle is not prone to attacks, could be isolated in very good yield. However, amine-bis(N-ethylcarbamoyl)boranes containing amines with sp2-hybridized N atoms (3f-k) undergo complete decomposition under similar conditions probably because of the increased hydridic character of the H

adjacent to B. Base exchange reactions starting from 4b resulted in the ammonium salts of 4c-e, h, i [A·BH(COOH)(COO-)][AH+], which in turn could be transformed into the diacids 4, except 4h, by protonation. As salt formation indicates, the 4 compds. are stronger acids as univalent acids than the corresponding A·BH2(COOH) complexes. 4A-e, i were readily esterified into amine-bis(methoxycarbonyl)boranes (5a-e, i) in MeOH, employing a catalytic amount of HBr. 5A-e, i are stable in alkaline medium but are readily hydrolyzed in acidic medium. Hydrolysis of [amine-bis(C-methoxy-N-ethylimidate)hydroboron(2+)] cations did not give the corresponding bisesters 5 in alkaline, neutral, or acidic medium.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.83	22.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-0.70

FILE 'REGISTRY' ENTERED AT 06:22:43 ON 21 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

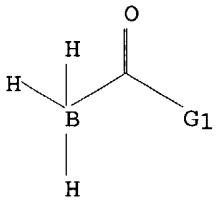
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

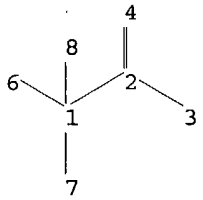
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\10089036\10089036 carboxyborane.str





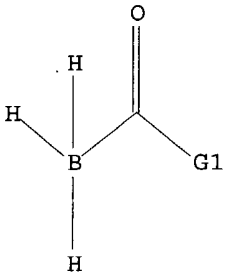
chain nodes :
1 2 3 4 6 7 8
chain bonds :
1-2 1-6 1-7 1-8 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2 1-6 1-7 1-8

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS

L6 STRUCTURE UPLOADED

=> d l6
L6 HAS NO ANSWERS
L6 STR



G1 H,A

Structure attributes must be viewed using STN Express query preparation.

=> search l6 sss sam
SAMPLE SEARCH INITIATED 06:23:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2911 TO ITERATE

34.4% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 54985 TO 61455
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

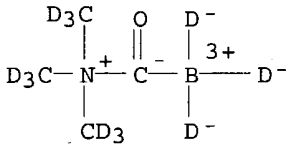
=> search l6 sss full
FULL SEARCH INITIATED 06:23:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 57303 TO ITERATE

100.0% PROCESSED 57303 ITERATIONS 50 ANSWERS
SEARCH TIME: 00.00.01

L8 50 SEA SSS FUL L6

=> d scan

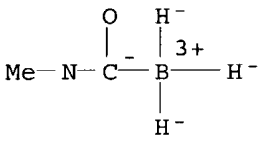
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, [N,N-di(methyl-d3)methan-d3-aminium η-oxomethylide]trihydro-d3-
(9CI)
MF C4 B D12 N O
CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

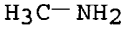
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), trihydro[(methylamino)carbonyl]-, (T-4)-, hydrogen, compd. with methanamine (1:1) (9CI)
MF C2 H7 B N O . C H5 N . H

CM 1

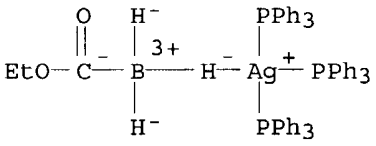


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

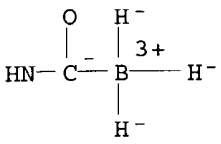
CM 2



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Silver, [(ethoxycarbonyl)trihydroborato(1-)-H]tris(triphenylphosphine)-, (T-4)- (9CI)
MF C57 H53 Ag B O2 P3
CI CCS

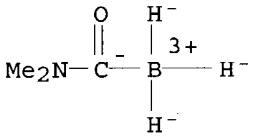


L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), carbamoyltrihydro-, sodium (8CI)
MF C H5 B N O . Na
CI CCS

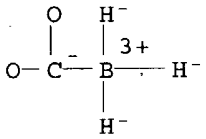


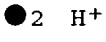
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, hydrogen, (T-4)- (9CI)
MF C3 H9 B N O . H
CI CCS, COM



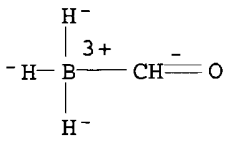
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, dihydrogen, (T-4)- (9CI)
MF C H3 B O2 . 2 H
CI CCS



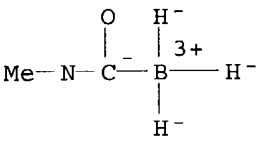


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), formyltrihydro-, (T-4)- (9CI)
MF C H4 B O
CI CCS

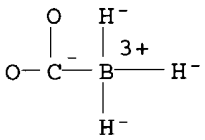


L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), trihydro(methylcarbamoyl)-, potassium (8CI)
MF C2 H7 B N O . K
CI CCS



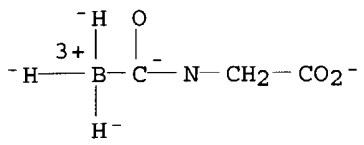
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

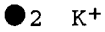
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)- (9CI)
MF C H3 B O2 . H
CI CCS



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

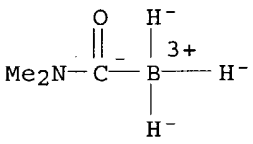
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), [[(carboxylatomethyl)amino]carbonyl]trihydro-, dipotassium, (T-4)- (9CI)
MF C3 H6 B N O3 . 2 K
CI CCS





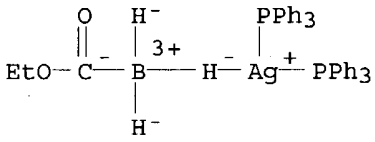
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, (T-4)- (9CI)
MF C3 H9 B N O
CI CCS, COM

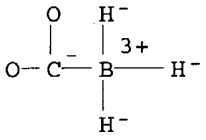


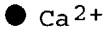
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Silver, [(ethoxycarbonyl)trihydroborato(1-)-H]bis(triphenylphosphine)-
(9CI)
MF C39 H38 Ag B O2 P2
CI CCS



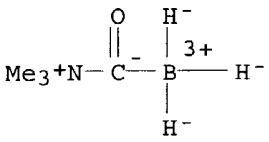
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, calcium (8CI)
MF C H3 B O2 . Ca
CI CCS



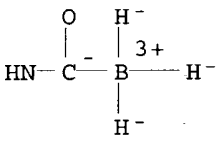


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, (N,N-dimethylmethanaminium η-oxomethylide)trihydro- (9CI)
MF C4 H12 B N O
CI CCS

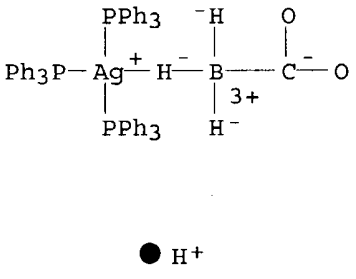


L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (aminocarbonyl)trihydro-, (T-4)- (9CI)
MF C H5 B N O
CI CCS, COM



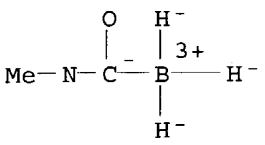
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Argentate(1-), [(carboxylato)trihydroborato(2-)-H]tris(triphenylphosphine)-, hydrogen, (T-4)- (9CI)
MF C55 H48 Ag B O2 P3 . H
CI CCS



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), trihydro[(methylamino)carbonyl]-, sodium, (T-4)- (9CI)
MF C2 H7 B N O . Na
CI CCS

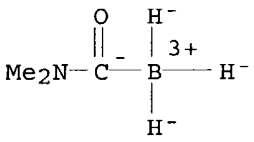


● Na^+

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

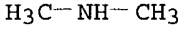
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, (T-4)-, hydrogen, compd. with N-methylmethanamine (1:1) (9CI)
MF C3 H9 B N O . C2 H7 N . H

CM 1

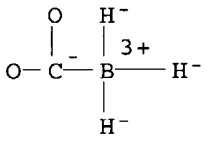


● H^+

CM 2



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, lead(2+) (8CI)
MF C H3 B O2 . Pb
CI CCS

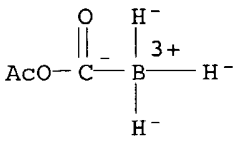


● $Pb(II)^{2+}$

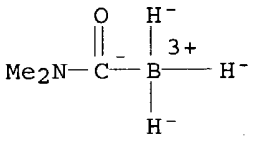
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), [(acetyloxy)carbonyl]trihydro-, (T-4)- (9CI)

MF C3 H6 B O3
CI CCS



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (dimethylcarbamoyl)trihydro-, potassium (8CI)
MF C3 H9 B N O . K
CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

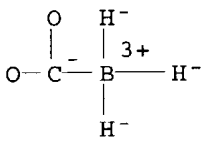
=> e Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)-/cn
E1 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, DISODIUM, (T-4)-/CN
E2 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, LEAD(2+)/CN
E3 1 --> BORATE(2-), (CARBOXYLATO)TRIHYDRO-, MONOHYDROGEN, (T-4)-/CN
E4 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, POTASSIUM HYDROGEN, (T-4)-/CN
E5 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, SILVER COMPLEX/CN
E6 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, SODIUM HYDROGEN, (T-4)-/CN
E7 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, (T-4)-/CN
E8 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, (T-4)-, DIHYDROGEN, COMPD. WITH N,N-DIPROPYL-1-PROPANAMINE (1:1)/CN
E9 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, DIHYDROGEN, (T-4)-/CN
E10 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, DIPOTASSIUM, (T-4)-/CN
E11 1 BORATE(2-), (CARBOXYLATOMETHYL)TRIPHENYL-, (T-4)-/CN
E12 1 BORATE(2-), (CARBOXYLATOMETHYL)TRIPHENYL-, (T-4)-, (OC-6-11)-HEXAAMMINECOBALT(3+) HYDROGEN (3:1:3)/CN

=> e3
L9 1 "BORATE(2-), (CARBOXYLATO)TRIHYDRO-, MONOHYDROGEN, (T-4)-"/CN

=> d l9

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 333738-22-0 REGISTRY
CN **Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)- (9CI)**
(CA INDEX NAME)
MF C H3 B O2 . H
CI CCS
SR CA

LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
       RACT (Reactant or reagent)
CRN (66005-32-1)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	163.30	185.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.70

FILE 'CAPLUS' ENTERED AT 06:25:46 ON 21 OCT 2004

FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> l9
L10   1 L9

=> d l10 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI   Carbon monoxide source for preparation of transition metal carbonyl
     complexes

AN 2001:265426 CAPLUS
DN 134:289554
TI Carbon monoxide source for preparation of transition metal carbonyl complexes
IN Alberto, Roger Ariel
PA Mallinckrodt Inc., USA
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001025243	A1	20010412	WO 2000-EP9856	20001005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			EP 1999-203254	A 19991005
EP 1218385	A1	20020703	EP 2000-972700	20001005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
			EP 1999-203254	A 19991005
			WO 2000-EP9856	W 20001005
JP 2003511334	T2	20030325	JP 2001-528187	20001005
			EP 1999-203254	A 19991005
			WO 2000-EP9856	W 20001005

OS CASREACT 134:289554; MARPAT 134:289554
AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal carbonyl complexes. The compds. are (X1)(X2)(X3)BC(O)Y where X1, X2 and X3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H3BCO as a reducing agent. Thus, K2H3BCO2 was prepared by bubbling H3BCO through and ethanolic KOH solution K2H3BCO2 can be reacted with [99mTcO4]- to generate [99mTc(OH2)(CO)3]+.
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.87	189.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-1.40

FILE 'REGISTRY' ENTERED AT 06:27:43 ON 21 OCT 2004

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

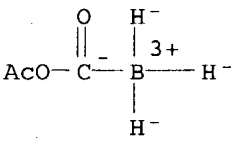
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=> e Borate(1-), ((acetyloxy)carbonyl)trihydro-, (T-4)-/cn
E1            1      BORATE(1-), ((6-METHYL-1,3-CYCLOHEXANEDIYL)(1-METHYL-1,2-ETH
                     ANEDIYL))DIHYDRO-, LITHIUM, (T-4)-/CN
E2            1      BORATE(1-), ((6-METHYL-1,3-CYCLOHEXANEDIYL)(1-METHYL-1,2-ETH
                     ANEDIYL))HYDRO(1,1,2-TRIMETHYLPROPYL)-, LITHIUM, (T-4)-/CN
E3            1 --> BORATE(1-), ((ACETYLOXY)CARBONYL)TRIHYDRO-, (T-4)-/CN
E4            1      BORATE(1-), ((BORYLENEAMINO)METHYLENE)(CYANO-N)HYDRO-, HYDRO
                     GEN, (E,?)-/CN
E5            1      BORATE(1-), ((BORYLENEAMINO)METHYLENE)(CYANO-N)HYDRO-, HYDRO
                     GEN, (Z,?)-/CN
E6            1      BORATE(1-), ((CYANO-13C)-C)TRIPHENYL-, NICKEL COMPLEX/CN
E7            1      BORATE(1-), ((D-ERYTHRO-HEX-2-ENONIC ACID-KO5,KO
                     6) Γ-LACTONATO(2-))DIHYDROXY-, (T-4)-/CN
E8            1      BORATE(1-), ((DICYCLOHEXYLPHOSPHINO-KP)ACETATO)TRIHYDR
                     O-, HYDROGEN, (T-4)-/CN
E9            1      BORATE(1-), ((DIETHOXYPHOSPHINYL)DIFLUOROMETHYL)TRIMETHOXY-,
                      (T-4)-/CN
E10           1      BORATE(1-), ((DIETHOXYPHOSPHINYL)DIFLUOROMETHYL)TRIMETHOXY-,
                      LITHIUM, (T-4)-/CN
E11           4      BORATE(1-), ((DIETHYL 3,3'-(1,2-ETHANEDIYLDINITRILO)BIS(2-(H
                     YDROXYIMINO)BUTANOATO))(2-)-O2,O2')DIFLUORO-, NICKEL COMPLEX
                     /CN
E12           4      BORATE(1-), ((DIETHYL 3,3'-(1,3-PROPANEDIYLDINITRILO)BIS(2-(
                     HYDROXYIMINO)BUTANOATO))(2-)-O2,O2')DIFLUORO-, NICKEL COMPLE
                     X/CN

=> e3
L11           1 "BORATE(1-), ((ACETYLOXY)CARBONYL)TRIHYDRO-, (T-4)-"/CN

=> d l11

L11 ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   89869-70-5  REGISTRY
CN   Borate(1-), [(acetyloxy)carbonyl]trihydro-, (T-4)- (9CI)  (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
CN   Acetic acid, anhydride with formic acid, boron complex
MF   C3 H6 B O3
CI   CCS
LC   STN Files:   CA, CAPLUS
DT.CA  CAplus document type:  Journal
RL.NP  Roles from non-patents:  PREP (Preparation); PRP (Properties)
```



```
                1 REFERENCES IN FILE CA (1907 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
```

=> file caplus
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 6.62 | 196.24

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | 0.00 | -1.40

FILE 'CAPLUS' ENTERED AT 06:28:29 ON 21 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l11
L12 1 L11

=> d l12 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Predictive schemes for the reactivity of borane carbonyl and the stability of carbonyltrihydroborate anions, BH3C(O)X-
AN 1984:174885 CAPLUS
DN 100:174885
TI Predictive schemes for the reactivity of borane carbonyl and the stability of carbonyltrihydroborate anions, BH3C(O)X-
AU Spielvogel, Bernard F.; McPhail, Andrew T.; Knight, Jimmy A.; Moreland, Charles G.; Gatchell, Catherine L.; Morse, Karen W.
CS Paul M. Gross Chem. Lab., Duke Univ., Durham, NC, 27706, USA
SO Polyhedron (1983), 2(12), 1345-52
CODEN: PLYHDE; ISSN: 0277-5387
DT Journal
LA English
OS CASREACT 100:174885
AB The reactivity of borane carbonyl (BH3CO) and its isoelectronic counterpart the acetylium cation (CH3CO+) are compared resulting in the formulation of (carbonyl)trihydroborate anions, BH3C(O)X-, which are isoelectronic and isostructural with organic carbonyls. By analogy with the ease of reduction of organic carbonyl compds. by hydroborate, the relative stability towards self-reduction-oxidation (hydride transfer from B to carbonyl C) in BH3C(O)X- is proposed. The postulated order, with increasing stability is: BH3C(O)Cl- < BH3C(O)H- < BH3C(O)R- < BH3C(O)OR- < BH3C(O)NR2- < BH3C(O)2-. Exptl. results of this study together with known chemical are consistent with the proposed order. Further, it is suggested that a similar predictive scheme may be applicable to the chemical of the

aminecarboxyboranes (B analogs of α-amino acids) and their derivs.

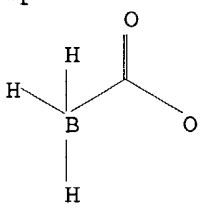
```
=> l8
L13          34 L8

=> save temp l13 boroncmpds/a
ANSWER SET L13 HAS BEEN SAVED AS 'BORONCMPDS/A'

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     8.27     204.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -0.70      -2.10

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:36:29 ON 21 OCT 2004

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 06:37:47 ON 21 OCT 2004
FILE 'CAPLUS' ENTERED AT 06:37:47 ON 21 OCT 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     8.27     204.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -0.70      -2.10

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     8.27     204.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -0.70      -2.10

FILE 'REGISTRY' ENTERED AT 06:38:02 ON 21 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   19 OCT 2004  HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES:  19 OCT 2004  HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004
```

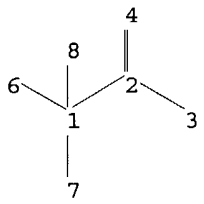
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\10089036\10089036 carboxyborane specific.str





chain nodes :
1 2 3 4 6 7 8
chain bonds :
1-2 1-6 1-7 1-8 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2 1-6 1-7 1-8

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS

L14 STRUCTURE UPLOADED

=> d l4

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 526832-07-5 REGISTRY
CN **DNA (Diplosoma listerianum clone DL3.9 microsatellite 3/9B-containing fragment) (9CI)** (CA INDEX NAME)
OTHER NAMES:
CN GenBank AF508214
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

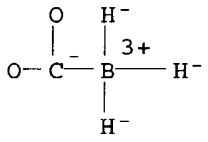
=> search l14 exact full
FULL SEARCH INITIATED 06:39:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L15 1 SEA EXA FUL L14

=> d scan

L15 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, (T-4)- (9CI)
MF C H3 B O2
CI CCS, COM



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	54.86	259.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.10

FILE 'CAPLUS' ENTERED AT 06:39:20 ON 21 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l15
L16 3 L15

=> d l16 1-3 ti fbib abs

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Carbon monoxide source for preparation of transition metal carbonyl complexes
AN 2001:265426 CAPLUS
DN 134:289554
TI Carbon monoxide source for preparation of transition metal carbonyl complexes
IN Alberto, Roger Ariel
PA Mallinckrodt Inc., USA
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001025243	A1	20010412	WO 2000-EP9856	20001005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			EP 1999-203254	A 19991005
EP 1218385	A1	20020703	EP 2000-972700	20001005
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
			EP 1999-203254	A 19991005
			WO 2000-EP9856	W 20001005
JP 2003511334	T2	20030325	JP 2001-528187	20001005
			EP 1999-203254	A 19991005
			WO 2000-EP9856	W 20001005

OS CASREACT 134:289554; MARPAT 134:289554
AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal carbonyl complexes. The compds. are (X1)(X2)(X3)BC(O)Y where X1, X2 and X3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H3BCO as a reducing agent. Thus, K2H3BCO2 was prepared by bubbling H3BCO through and ethanolic KOH solution K2H3BCO2 can be reacted with [99mTcO4]- to generate [99mTc(OH2)(CO)3]+.
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+
AN 2001:172533 CAPLUS
DN 134:375302
TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of [99mTc(OH2)3(CO)3]+
AU Alberto, Roger; Ortner, Kirstin; Wheatley, Nigel; Schibli, Roger; Schubiger, August P.
CS Institute of Inorganic Chemistry, University of Zuerich, Zurich, CH-8057, Switz.
SO Journal of the American Chemical Society (2001), 123(13), 3135-3136
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:375302

AB Using a boron-based carbonylating agent, [H3BCO2]- which acts as an in situ CO source and a reducing agent at the same time, an organometallic transition-metal complex [99mTc(OH2)3(CO)3]+ was feasibly prepared for the first time. K[H3BCO2] (2) was prepared from H3BCO and KOH in alc. Crystals of [K(cryptand)]H3BCO2H were obtained after dissoln. of 2 in a THF solution of 4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8.]hexacosane. Aqueous solns. of 2 are strongly alkaline and quite stable toward heating, but the addition of a borate buffer allows the decomposition with half-lives in the order of tens of minutes. Kinetic measurements in buffered solns. show a second-order dependence of the rate of boranocarboxylate decomposition on proton decomposition Borane carbonyl is formed when boranocarbonate salts are treated with strong acids.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI An investigation of the coordinating properties of the boranocarbonates and tetrahydroborate
AN 1978:130114 CAPLUS
DN 88:130114
TI An investigation of the coordinating properties of the boranocarbonates and tetrahydroborate
AU Bommer, Jerry Charles
CS Utah State Univ., Logan, UT, USA
SO (1977) 250 pp. Avail.: Univ. Microfilms Int., Order No. 7730634
From: Diss. Abstr. Int. B 1978, 38(8), 3687
DT Dissertation
LA English
AB Unavailable

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.48	266.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.40	-3.50

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:41:09 ON 21 OCT 2004